

NIST Technicalendar

UNITED STATES DEPARTMENT OF COMMERCE

Technology Administration
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-0001

The *NIST Technicalendar*, issued each Friday, covers scheduled events which are of interest primarily to the NIST staff. All boxed items/notices for inclusion should be in WordPerfect 5.1, 6.1, or ASCII format and MUST be received by 12:00 NOON each Wednesday unless otherwise stated in the *NIST Technicalendar*. Items for inclusion and requests for copies of this calendar should be sent to Ms. Sharon Mingo, Editor, Building 820, Room 125, National Institute of Standards and Technology, Gaithersburg, MD 20899-0001, (Telephone: 301/975-3570; FAX: 301/926-4431; or E-mail: mingo@micf.nist.gov).

All lectures and meetings are open unless otherwise stated.

NIST Weekly Calendars and Bulletins Online

The address for online weekly editions (most recent three months) of the *NIST Technicalendar* and *NIST Administrative Calendar* is

<http://ricmenu.nist.gov/htdocs/calendars.html>

Calendar files are in pdf format. If you don't already have the free Adobe Acrobat Reader, first download it from

<http://www.adobe.com/Software/Acrobat>

The *Boulder Laboratories Weekly Bulletin* (current and previous week), in html format, is available online at

<http://www.boulder.nist.gov:1580/bulletin/>

FEBRUARY 19 TO FEBRUARY 23, 1996 MEETINGS AT NIST

2/21 WEDNESDAY 10:45 a.m. REACTOR RADIATION DIVISION SEMINAR: Crystal-Field Splitting and Coupling of the Ho³⁺ Ion With Crystalline Lattice in HoP_{1-x}V_xO₄, S. Skanthakumar, Univ. of Maryland and NIST. New Conf. Rm., Reactor Bldg. (NIST contact: D. Neumann, 975-5252.)

2/21 WEDNESDAY 11:00 a.m. POLYMERS DIVISION SEMINAR: Measurements of the Gaussian Curvature of the Interfaces in an Isometric Bicontinuous Microemulsion and a Phase-Separated Polymer Blend, S.H. Chen, Dept. of Nuclear Engineering, Massachusetts Institute of Technology, Cambridge, MA. Rm. A315, Polymer Bldg. (NIST contact: C. Han, 975-6772.)

2/22 THURSDAY 10:30 a.m. POLYMERS DIVISION SEMINAR: Some Fundamental Aspects of Light Scattering From Linear Flexible Polyelectrolytes, M. Sedlak, Institute of Experimental Physics, Slovak Academy of Sciences, Kosice, Slovakia. Rm. A315, Polymer Bldg. (NIST contact: E. Amis, 975-6681.)

2/22 THURSDAY 3:30 p.m. ELECTRON AND OPTICAL PHYSICS DIVISION SEMINAR: Elementary Excitations in Superfluid ^4He . The Role of the Condensate, H. Glyde, Univ. of Delaware, Newark, DE. Rm. B307, Materials Bldg. (NIST contact: C. Clark, 975-3709.)

NIST 95-96 Colloquium Series

VERY COLD INDEED: THE NANOKELVIN PHYSICS OF BOSE EINSTEIN CONDENSATION

Eric Cornell

Fellow of JILA, NIST Physics Laboratory
1995 Stratton Award Winner

FRIDAY, February 23, 1996

10:30 a.m. - 11:30 a.m., Green Auditorium, Administration Building

As atoms get colder, they start to behave more like waves and less like particles. Cool a cloud of identical atoms so cold that the wave of each atom starts to overlap with the wave of its neighbor atom, and all of sudden you wind up with a sort of quantum identity crisis known as Bose Einstein Condensation. How do we get something that cold? And what is the nature of the strange goop that results?

Anyone requiring special assistance should contact Lillian Ware on 975-4203. Colloquiums are videotaped and available in the Research Information Center.

The Office of International and Academic Affairs (OIAA) has information on a program administered by the National Research Council (NRC) which supports cooperation with scientists from the Newly Independent States (NIS) of the former Soviet Union. The Cooperation in Applied Science and Technology program provides incentive grants to U.S. scientists to host NIS colleagues for a period of 6 to 12 months to carry out joint research. More detailed information on this program can be found on the NRC homepage: <http://www.nas.edu> or contact Claire Saundry, OIAA at e-mail, chubbard@micf.nist.gov or 975-2386.

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NIST Nanostructure Science Colloquium Series

February 20, 1996, 10:30 a.m., Lecture Room A, Administration Building
This colloquium is the fourth of a series focused on research in the regime of nanometer sized dimensions. Colloquia will be held each month. A schedule of future colloquia is available at <http://physics.nist.gov/www/nano.html> and you may register to receive future announcements by e-mail by sending a request to kim@epg.nist.gov.

OPTICAL MICROSCOPY AT 10 ANGSTROM RESOLUTION

Kumar Wickramasinghe, IBM T.J. Watson Research Center

Interferometric near-field optical microscopy achieving a resolution of 10 angstrom is demonstrated. The scattered electric field variation due to a vibrating probe tip in close proximity to a sample surface is measured by encoding it as a modulation in the optical phase of one arm of an interferometer. Unlike in regular near-field optical microscopes where the contrast results from a weak source (or aperture) dipole interacting with the polarizability of the sample, the present form of imaging relies on a fundamentally different contrast mechanism; sensing the dipole-dipole coupling of two externally driven dipoles (i.e. tip and sample dipoles) as we modulate their spacing. Recent results on applications of this technique will be presented. **Technical contact: Robert Celotta, 975-3710; Information contact: Kim Chaney, 975-3707.**

Radiometric Physics Division

POLARIZATION-ENTANGLED PHOTONS: THE NEXT GENERATION

Paul Kwiat, Los Alamos National Laboratory

Thursday, February 22, 1996, 10:00 a.m.
Bldg. 221, Rm. B165

Spontaneous parametric down-conversion with type-II phase-matching produces an intense source of polarization-entangled photon pairs, which violated Bell's inequality by over 100 standard deviations, in less than 5 minutes! Armed with such a source, one can investigate a number of interesting phenomena in quantum communication. For example, analysis of the 4 preparable Bell-states allows coding of 2 bits into a single 2-state particle. One can also contemplate the production of new, never-before-seen states of light.

Contact Person: Alan Migdall, 975-2331.

Information Technology Laboratory Statistical Engineering Division

COURSE ANNOUNCEMENT
STATISTICS FOR SCIENTISTS AND ENGINEERS: INTRODUCTION TO STATISTICAL
CONCEPTS

Mark G. Vangel

This course, the first in a unified program of short courses in applied statistics for the NIST community, will be given Monday mornings, 9-12, on February 26, March 4, and March 11, in Lecture Room E. It will consist of an elementary introduction to statistical concepts, with an emphasis on applications to measurement.

For more information on this and later courses in this series, contact Mark Vangel at 975-3208, vangel@cam.nist.gov, or see the event calendar under the Statistical Engineering Division home page at URL <http://www.cam.nist.gov/caml/sed/>. Registration is \$50, and a form DN-11 should be submitted to Pat O'Connor in the Training Office, Admin. A123, by COB February 21.

ADVANCE NOTICE and RESCHEDULE ANNOUNCEMENT

The Symposium on Usability Engineering: Industry-Government
Collaboration for System Effectiveness and Efficiency
originally scheduled for January 10, 1996, has been rescheduled for:
February 26, 1996, at NIST

Simply put, it is critical for government and industry, in designing new government computer systems and in redesigning legacy systems, to be aware of the best practices now available for ensuring the usability of such systems. This symposium will bring together industry and government to exchange information and strategies for achieving effectiveness, efficiency, and satisfaction in computer-based government systems.

Topics:

- o Intro to Usability Engineering o Standards & Guidelines o Usability Trends in Gov. Sys.
- o Industry Strategies & Practices
- o Success Stories o Special Issues for Complex Sys. o Costs and Benefits
- o Making Usability Work in the Org.

Audience:

- o Project Development Managers o Technical Staff & Researchers o Government Contractors
- o COTS Product Vendors
- o Procurement Officials o Consultants o Analysts & Engineers
- o Policymakers

Detailed Information: via web at: <http://dsys.ncsl.nist.gov/pub/uesym/>

Cost: \$55 which includes lunch and materials.

Registration: contact Lori Phillips at 975-4513.

Organizers: L. Downey, NIST, Chair, 975-4659; Dr. S. Laskowski, NIST; E. Buie, CSC; Dr. R. Hartson, Virginia Tech.

IMPORTANT NOTE: NIST employees who plan to attend are required to register and pay the \$55 fee.

Advance Notice
**THIRD ANNUAL POST-DOCTORAL POSTER PRESENTATION
SPONSORED BY SIGMA XI**

Thursday, February 29, 1996, 11 a.m. - 3 p.m., Employee's Lounge

The NIST Chapter of Sigma Xi cordially invites all staff members to visit the poster presentations by current NIST Post-Doctoral Research Associates. The poster presentation will be accompanied by refreshments. Please come and welcome our new Post-Docs and learn about their exciting research.

For more information please contact Barbara C. Levin (975-6682, bclevin@enh.nist.gov).

MEETINGS ELSEWHERE

2/20—TUESDAY 4:00 p.m. UNIV. OF MARYLAND ORGANIC CHEMISTRY SEMINAR: Characterizing Reactive Intermediate Enthalpies in the Condensed Phase, J. Grabowski, Univ. of Pittsburgh, PA. Rm. 1325, Chemistry Bldg., Univ. of Maryland, College Park, MD.

2/21—WEDNESDAY 2:00 p.m. UNIV. OF MARYLAND INORGANIC SEMINAR: Catalytic Electron and Atom Transfer Reactions of Nucleic, H. Thorp, Univ. of North Carolina. Rm. 1325, Chemistry Bldg., Univ. of Maryland, College Park, MD.

2/21—WEDNESDAY 4:00 p.m. JOHNS HOPKINS UNIV. MATERIALS SCIENCE AND ENGINEERING SEMINAR: Giant Magnetostrictive Materials, A. Clark, NSWC. Maryland Hall 110, The Johns Hopkins Univ., Baltimore, MD. (For further information call M. Weaver, 410/516-8145.)

2/21—WEDNESDAY 4:00 p.m. UNIV. OF MARYLAND CHEMICAL PHYSICS/PHYSICAL CHEMISTRY/LAMOS SEMINAR: When Does $1 + 1 = 4$? The Strange Journey of Electron Waves Ejected From Atoms, F. Robicheaux, Dept. of Physics, Auburn Univ., AL. Rm. 1116, IPST Bldg., Univ. of Maryland, College Park, MD.

2/21—WEDNESDAY 4:15 p.m. GEORGETOWN UNIV. CHEMISTRY DEPT. SEMINAR: You Don't Have to Know Where the Rabbit Came From, R. Park, Univ. of Pennsylvania, Philadelphia, PA. Reiss 262, Georgetown Univ., Washington, DC. (For further information call A. Liu, 202/687-6073.)

2/23—FRIDAY 3:00 p.m. UNIV. OF MARYLAND ANE SEMINAR: Biogeochemical Cycling of H₂S in Marine Waters, G. Cutter, Dept. of Oceanography, Old Dominion Univ., Norfolk, VA. Rm. 1325, Chemistry Bldg., Univ. of Maryland, College Park, MD.

“Third Tuesdays” Seminar -- “Interdisciplinary Aspects of the Electronic Superhighway”

Institute for Computer & Telecommunications Systems Policy, School of Engineering and Applied Science, The George Washington University
Supported in part by a grant from the National Science Foundation Division of Networking and Communications Research and Infrastructure

Tuesday, February 20, 1996, 4 p.m. - 6 p.m., Room 413-414 Marvin Center,
21st & H St. NW, Washington, DC

ELECTRONICS AND THE DIM FUTURE OF THE UNIVERSITY

Speaker: Eli M. Noam, Director, Columbia Institute for Tele-Information,
Professor of Finance and Economics, Columbia University

Discussant: Philip W. Wirtz, Professor of Management Science and
Psychology, The George Washington University

The growth of electronic media and communication has provided new tools for academics, but also poses several fundamental challenges to the future of universities as the centers of research and higher education. One result of the rapid increase in the production and dissemination of information is that the advantage of physical proximity of researchers in universities is diminished. The strength of the university of the future may lie less in serving as pure centers of information and more in college as a community.

Please visit ICTSP on the Web to learn more the Seminar Series: URL:
<http://www.seas.gwu.edu/seas/ictsp/Activities/Seminars/>

FREE AND OPEN TO THE PUBLIC

The Open System Environment Implementors' Workshop (OIW), co-sponsored by NIST and the IEEE Computer Society

March 19-21, 1996, Gaithersburg, MD.

MARCH 19-21 WORKSHOP WEEK AT A GLANCE

ACTIVITY	TUESDAY	WEDNESDAY	THURSDAY
DIR SVCS	9:00-5:00	9:00-5:00	9:00-5:00
MMS	10:00-5:00	9:00-5:00	9:00-12:00
MES HANDLING	9:00-5:00	9:00-5:00	9:00-12:30
MUL/HYPER MED	9:00-1:30	9:00-5:00	9:00-12:00
TUTORIAL:	1:30-3:30		

Status of MMHM Hardware Standards, Mike Rubinfeld, NIST, Chair

SIGCAT

CD-ROM Aps.

OSE TECH COM 9:00-5:00 9:00-5:00 9:00-5:00

OSE-TESTING 9:00-5:00 9:00-5:00

TUTORIAL: 9:00-11:00

The Defense Message System (DMS) Program begins the Compliance Test & Evaluation (CT&E) phase and prepares for Initial Operational Capability (IOC) later this year. Mr. Thomas W. Clarke, DMS Program Manager, will provide an overview of the program's status, to include initial DMS compliant mainline commercial product offerings. A representative from the Joint Interoperability Test Center (JITC) will provide the status of CT&E testing activities. A member of the DMS Integration Team will provide status of upcoming profile evolution activities.

RDA 9:00-5:00 9:00-12:00

SECURITY 9:00-5:00 9:00-5:00

SYS/NET MGMT 9:00-5:00 9:00-5:00

9:00-5:00

There is no charge for attending tutorials, however, there is a registration fee for other activities. Contact Joe Hungate, jhungate@nist.gov, 975- 3368 for more information.

TALKS BY NIST PERSONNEL

ANTONUCCI, J.M.: "Efficacy of N-aryl- and N-alkyliminodiacetic Acids in Dentin Bonding," International Association of Dental Research Annual Meeting, San Francisco, CA, 3/16/96

HEYDEMANN, P.L.M.: "Standards and Quality in International Trade," National Physical Lab., New Delhi, India, 2/20/96.

KIRSCH, R.A.: "Early Electronic Computing at the NBS," ACM Computer Science Conf. History Trach, Philadelphia Marriott Hotel, PA, 2/18/96.

LOONEY, J.P.: "Laser Bandwidth Effects in Quantitative Cavity Ring Down Spectroscopy," Physics Dept., Univ. of Connecticut, Storrs, CT, 2/19/96.

MC CLELLAND, J.: "Nanostructure Fabrication With Atom Optics," New York Univ., New York, NY, 2/22/96.

NGUYEN, T.: "In Situ Measurement of Metal Ions at the Polymer/Substrate Interface Using Infrared-Active Sensors," Adhesion Society Conf., Myrtle Beach, SC, 2/21/96.

NIST Administrative Calendar

Notices to be included should be transmitted in writing in time to be received by NOON on WEDNESDAY. Send to Management & Organization Division, Bldg. 415, Room 118, extension 4074, fax to 926-8091, or e-mail to gmr@micf.nist.gov.

February 19 - February 23, 1996

ADMINISTRATIVE ITEMS - New

Congratulations to Dr. Mark O. McLinden

Congratulations go to Dr. Mark O. McLinden, Supervisory Chemical Engineer, Thermophysics Division, Chemical Science and Technology Laboratory, for receiving recognition in conjunction with National Engineer's Week. Dr. McLinden was selected as the Department of Commerce Engineer of the Year by the National Society of Professional Engineers as part of the Seventeenth Annual Federal Engineer of the Year Awards Program. The Awards Luncheon is Thursday, February 22, 1996, at the Crystal City Marriott in Arlington, Virginia.

Early Closing of NIST Lunch Club on February 22

Please note that the NIST Lunch Club will close at 12:45 p.m. on Thursday, February 22, in order to accommodate 50 guests of the working group of the Free Trade Area of the Americas.

Retirement Reception for William P. Reed

William P. Reed of the Office of Measurement Services, will retire on March 1, 1996, after 32 years of government service. A reception in his honor will be held on Thursday, March 28, 1996, from 2:00 to 4:00 p.m. in the Employee's Lounge, Administration Building. To contribute towards a gift, please contact Dee Covey on extension 2015, Bldg. 202, Room 112 or Verna Moore on extension 3108, NIST North, Room 233.

Retirement Luncheon for George A. Dines

After 38 1/2 years of government service at NBS/NIST, George A. Dines, High Performance Systems & Services Division (formerly Computer Services Division), CAML, is retiring. A luncheon will be held in George's honor on THURSDAY, MARCH 28, 1996, beginning at 11:30 a.m. at the Golden Bull in Gaithersburg. The cost of the luncheon is \$16. The menu includes a choice of entree: prime rib or crab cakes, whipped potatoes/french fries, garden salad, hot vegetable, rolls & butter, coffee and vanilla ice cream. Please make your reservation no later than FRIDAY, MARCH 22, by calling Linda on extension 2869 or Helen on extension 3819. Contributions toward a gift for George are also being accepted. We hope you can join George in celebrating his retirement.

Hy-Test Shoemobile to Visit NIST

The Hy-Test Shoemobile will be at NIST on Thursday, February 22, 1996, from 1:00 - 4:00 p.m. The staff may purchase shoes from the shoemobile or place an order for shoes which will be shipped to their home. The shoemobile will be located north of Building 231 (Industrial). For further information you can contact the Safety Office on extension 5818.

NIST General Tour

NIST offers tours on most Thursdays at 9:30 a.m. Advance reservations are required. In addition to a short overview, the tour includes three stops chosen from the following: Advanced Ceramics, Clinical Measurements of Cholesterol, Structures, and the Museum. The tour lasts approximately 1 1/2 hours. To reserve a space on an upcoming tour, please call Jan Hauber on extension 3585.

Giant and Safeway Receipts Needed

The teachers at Quince Orchard High School have requested that NIST employees collect Giant and Safeway receipts for their school. The Civil Rights Office has agreed to act as a focal point for this effort. Please mail all receipts to Suzanne Sullivan, Room A228, Administration Building. The last date to collect receipts is March 3, 1996.

Barber Shop News

The NIST Barber Shop will close on Thursday, February 22, at 11:00 a.m. and be closed through Friday, February 23, due to family illness. Please call extension 3311 to schedule appointments.

ADMINISTRATIVE ITEMS - Continuing

Test of the General Alarm Bells

The Fire Department will be testing the general alarm evacuation bells in each building on the NIST site during the morning hours of March 25, 1996. If you have any questions, please call Fred Keister on extension 6190.

Replacement of Manholes

Plant Division has contracted out the replacement of five manholes. There are two underway located on the NE Corner of Building 226 and across from Building 235 on Center Drive. The work will be ongoing for several months. It should have minor traffic interference near the job sites. If there are any questions in regard to the work, contact Dave Henry on extension 6905 or e-mail david.henry@nist.gov.

Health Unit Screening

Heart Disease is the leading cause of death in the United States. There are 3 modifiable risk factors - high blood pressure, elevated cholesterol, and smoking. Through our semi-annual wellness programs many NIST employees were found to have elevated cholesterol levels. The NIST Health Unit will be screening for HIGH BLOOD PRESSURE during the month of February. Please come to the Health Unit - Building 101, Room C33 - Monday through Friday from 11:00 a.m. to 4:00 p.m. to have

your blood pressure checked. No appointment is necessary. There will be information available about HEART DISEASE and its prevention in the Health Unit.

TRAINING OFFICE MOVE

Effective Monday, February 5, 1996 the Training Office moved to A41, Basement of 101. Kelley Maddox will no longer be working in the Training Office. She has moved to the Payroll Office. You may reach Pat O'Connor, Training Officer, on extension 3017. The mail stop will still be 101/A123. E-Mail messages can be sent to patricia.oconnor@nist.gov.

EMPLOYEE EXPRESS IS HERE!

Employee Express is an automated system where **YOU** will be directly in control of, and responsible for, some of your own personnel and payroll actions. Effective immediately, employees will begin using the automated Employee Express system for Federal Tax Withholdings, State Tax Withholdings, Direct Deposit of Net Pay, Direct Deposit of Allotments, Residence Mailing Addresses, and Check Mailing Addresses. The Office of Human Resources Management (OHRM) will no longer process the forms that are mentioned above. OHRM will process those forms that are currently in the office. Newly hired employees must submit their personnel/payroll documents directly to their Personnel Assistants for processing until they are established on the personnel/payroll database. A Personal Identification Number (PIN) to access the system will be mailed to the employee. Those employees who wish to claim more than 10 exemptions or total exemption from Federal tax withholding will continue using the forms and forwarding to their Personnel Assistant for processing. The Internal Revenue Service (IRS) has not approved a waiver of the paper form in these instances.

How do I use the system? Access in all areas can be made from any touch tone phone. To access Employee Express, Commerce employees must call **(912) 757-3083** from work or **(800) 827-6281** from outside work. You must have your PIN along with your social security number to access the system. PINs have been or will be mailed to all employees in accordance with the letter to all Commerce employees from Elizabeth W. Stroud, Director, for Human Resources Management dated 1/25/96.

What? Lost or misplaced your PIN? You must call the Employee Express Help Desk at **(912) 757-3030**.

Retirement Luncheon for Bernice Williams Bernice Williams of the Facilities Services Division retired on January 3, 1996. Bernice has been with NIST for 17 years, two in the Janitorial Group and 15 in the Mail and Distribution Group. Because of the furlough the luncheon has been rescheduled. Please join us for a retirement luncheon in her honor to be held on Friday, February 16, 1996, 11:30 a.m. at the Golden Bull Grand Cafe, #7 Dalmar Street, Gaithersburg. The cost is \$15 (includes tax and gratuity). The menu consists of an entree (choice of Roast Sirloin of Beef, Grilled Breast of Chicken, or Angel Hair Pasta w/Shrimp), Garden Salad, Vegetable du Jour, Whipped Potatoes, Bread w/butter, Coffee, and Chocolate Mousse. Please contact Sherry on extension 3326 or Brenda on extension 3556 no later than February 13, if you plan to attend the luncheon or if you would like to contribute towards a gift.

Retirement Luncheon for Charles Summers Rescheduled

The retirement luncheon for Charles Summers, originally scheduled for January 12, has been rescheduled (because of the furlough) to February 23, at 12:00 noon at the Golden Bull Restaurant. The cost of the buffet is \$14.00 and includes tax and gratuity. If you would like to attend, please see Gerri, Judy, or Nancy in Building 304, Room 135 by February 16. If you have any questions, please call extension 6504.

Retirement reception for Anneke Levelt Sengers

After 31 years at NBS/NIST, Anneke Levelt Sengers recently retired from her position of NIST Fellow. In addition to her internationally distinguished career, Anneke is known for her many contributions to NIST's professional culture, including serving as President of Sigma Xi. You are invited to a reception in her honor on Friday, February 23, 1996, from 2:00 to 4:00 p.m. in the Employee's Lounge, Administration Building. Please contact Bobby Berg on extension 2466 or Keith Gillis on extension 2468 if you wish to contribute towards a gift.

Retirement Luncheon for Paul Johnson

Paul Johnson of the Occupational Health and Safety Division (Safety Office) will be retiring on March 2, 1996, after 33 years of government service. A retirement luncheon for Paul will be held on February 26, 1996, at 11:30 a.m. at the Hilton Inn (formerly the Marriott). There will be a buffet. The cost of the buffet is \$12.00 which includes tax and gratuity. If you would like to attend or contribute towards a gift, please see Jeanmarie or Dorothy in Building 301, Room B124 by February 21, 1996. Any questions, please call extension 5818.

Beauty Shop Specials

\$2 OFF Cuts - \$10 OFF Highlights - \$5 OFF Prizims. Call Donna on extension 3312 for an appointment.

NAAS - NIST ASSOCIATION FOR AFRICAN-AMERICAN STAFF

NAAS General Meeting

NAAS will hold a general meeting on Tuesday, February 27, at 12:00 noon. The meeting will be held in Lecture Room C, Administration Building. For further information, contact Charles Yancey on extension 6073 or Mary Chaney on extension 3027.

PCX No. 261 February 20, 1996

PC-EXCHANGE: Share your PC problems, questions, etc. so that other staff members can benefit from your experience or offer suggestions to address your PC needs. Mail/phone your contributions (anonymously or with credit) to Gaithersburg PC Assistance. Gaithersburg PC Assistance: Call the PC Assistance Hotline (voice or TDD), 301/975-3099; Admin/A738; e-mail PCASSIST@micf.nist.gov. Gaithersburg PC Maintenance and Hardware Upgrades: Call the PC Maintenance Hotline, 301/975-4090. Boulder PC Assistance or Maintenance: Call the Boulder PC Support Hotline, 303/497-3931; Room 1-4050; e-mail PCASK@bldrdoc.gov.

261.1 LASERJET SHADOW PRINTING - Thanks to Al Sher (880) and Merrill Hessel (820) for the following information concerning a number of LaserJet printing problems which have been reported recently. The common symptom in all these cases is that LaserJets have printed pages with a very light second image at the bottom of the page, about 1.5 inches (4cm) below the original printing. This shadow printing is particularly clear when printing a very dark area such as a logo. When you change toner cartridges the problem disappears, but only for a short while. The explanation for this is that the humidity is very low—reportedly 12% in one office. The specifications for the LaserJet are that it operate between 20% and 80% relative humidity. The LaserJet uses an electric charge to attract the black toner particles to the roller. The low humidity prevents the charge from fully dissipating when the roller makes a complete turn. It then attracts particles again and a lighter shadow image results. When the toner cartridge is changed, the problem initially goes away because the toner cartridge comes from a sealed package (original moisture content), but after a while the problem reappears.

261.2 1-2-3 TIP - Some worksheets contain so many values that if you display all the zero values as two dashes (--) it makes it easier to read and analyze. Change the display of zeros by changing 1-2-3's global zero setting. In 1-2-3/DOS issue the following commands: / Worksheet Global Zero Label, and type -- (or any other label). Press [Enter] and each zero will now show on the screen as --. In 1-2-3 for Windows, pull down the Style menu and choose the Worksheet Defaults... option. Select the Display zeros as: check box, if it's not already selected. Then type -- in the corresponding text box and click OK.

261.3 WINDOWS 95 IMPROVED PASSWORD PROTECTION - Thanks to Steve D'Angona (888) for providing us with a copy of Microsoft's patch to provide enhanced password encryption for Win95 users. Win95 uses a caching mechanism to store network passwords on a user's machine. When a user first types and saves a password while connecting to a password protected resource, the user can choose to store the password in a local password list file. Subsequent logins with a Windows 95 password unlocks the list and associates those stored passwords with the Windows 95 password. If the user does not choose to use password caching, they must type the passwords each time they connect to a password protected resource. Recently, an algorithm was posted on the Internet which could be used to compromise the security used in the password list file. This patch strengthens the encryption used for the password list file. The new component uses a 128-bit key, increased from a 32-bit key in the previous version. The new component also includes enhancements to the way passwords are stored in the file. This update is available from the MCF WHLIST, from the ENH anonymous/pc directory, and from the PC Assistance Web page in the file MSPWLUPD.EXE. To install this patch, copy the file to a temporary directory on your PC and then execute the file from within Win95.

261.4 COREL PURCHASES THE WORDPERFECT FAMILY OF SOFTWARE - Novell, Inc. and Corel Corporation announced on January 31, 1996, a definitive agreement for Corel to acquire Perfect Office for Windows, WordPerfect for Windows, DOS, Mac and UNIX, QuattroPro for Windows and DOS, Presentations for Windows and DOS, and InfoCentral from Novell. Concurrently, Corel will license GroupWise client software, Envoy electronic publishing software and other technologies from Novell. Corel will honor existing WordPerfect customer service and technical support obligations. At the same time, Corel indicated that it expects to ship Corel PerfectOffice 7 for Windows 95 and Windows NT in the spring of this year. Several new Internet utility features of

the software were announced—including the capability in Corel WordPerfect 7 of directly publishing home pages via HTML output and converting legacy documents to HTML; the capability in Corel QuattroPro 7 of going from any cell directly to any URL site on the Internet and directly linking tables and numbers from any home page into your spreadsheet; and the capability to use Corel Presentations 7 to play slide shows directly onto the web.

OFFICE OF INFORMATION SERVICES - News

Information Center Tours

A 30-minute tour of the NIST Research Information Center is given on the 2nd Wednesday of every month. A member of the Research Information Services staff is on hand for as long as necessary afterwards to answer questions, or to arrange for more detailed explanations of specific areas.

No reservation is required. If you have any questions, or want to make suggestions about what should be covered, call Marietta Nelson on extension 3055. Next tour: Wednesday, **March 13, 1996**, at 10:30 a.m.

Training on the NIST Virtual Library

The Research Information Center is offering training on the NIST Virtual Library, which provides online access from your desktop computer to a variety of information resources and services. The next training date is February 27, 1:30-4:00 p.m., in Room A41 in the basement of the Administration Building. There is no cost and participants should know how to use a mouse. To register, please call Diane Cunningham on extension 3053.

NIST Authors' Immortality Threatened

Authors of technical papers published in non-NIST media are reminded that they must send two reprints or photocopies of each published paper along with a completed Form NIST-266 to the address on the form. (In Boulder, the paperwork first goes through Publications Services, Building 1, Mail Stop 360.00). ANY CHANGES regarding title, authors, place of publication, additional places of publication, text modification, or withdrawal from publication must be reported on the form AND to the appropriate NIST Editorial Review Board. Significant changes (such as condensations or revisions) to the document originally approved must be submitted to the Editorial Review Board as a new item, but on the Form NIST-114 you may cross-reference the original document. Complete these reporting requirements to assure proper bibliographic indexing, wide professional exposure, conformance to NIST policy, and literary immortality!

NCW - NIST COMMITTEE FOR WOMEN

TAKE OUR DAUGHTERS TO WORK DAY -- APRIL 25, 1996, 9:00 a.m. to 3:30 p.m.

Mark your calendar to bring your daughter or sponsor a young woman ages 9-17 for this lively annual event of hands-on demonstrations and panel discussions about careers at NIST. Help show young women the expertise you contribute to NIST and how teamwork can build careers.

NCW is excited about expanding this event to meet the growing demand for attendance we experienced last year. However, the additional space still has a limit, therefore advance registration is required.

To register a student please call Ruth Lenhart at extension 2316 with the following information: 1) Student name and age; 2) NIST sponsor name, mailstop, and phone; 3) If you are interested in ordering event T-shirts as gifts or a button for yourself. NCW provides event buttons for each student participant. Price and item descriptions will be available when you call.

NCW will place another announcement when space for the event is filled. Questions? Volunteers? call Dr. Kathy Butler, Program Chair at extension 6673.

SEBA - STANDARD EMPLOYEES BENEFIT ASSOCIATION

SEBA Board of Trustees Meeting

The SEBA Board will hold its monthly meeting on Tuesday, February 20, in Lecture Room B113, Administration Building, at 10:00 a.m. All board members are urged to attend.

Ski Club Meeting

The NIST Ski Club will be holding its next meeting on Tuesday, February 27, at 12:00 Noon in Lecture Room A, Administration Building. The agenda will include an update on current events, plans for next year, and election of officers. A ski video will be shown starting at 11:30 a.m. with club business at noon. Door prizes will be awarded, so plan on being there.

Relief Fund

As you probably know many individuals who work for contractors hired by NIST did not get paid during the recent furlough. Many staff members have asked if something could be done to help ease the financial strain of these individuals who we consider part of the NIST family.

SEBA is seeking contributions from the NIST staff to develop a "Relief Fund" for the sole purpose of providing emergency assistance to staff and contractors. The initial thrust will be providing assistance for individuals who were unpaid during the period of the furlough. A small subcommittee will be working on developing a workable process including criteria for defining need.

If you wish to contribute towards this effort, please make a check to the SEBA Relief Fund and forward it to Terry Sorcek, ADMIN, A123 or hand it in to the SEBA gift shop. We will provide feedback to the staff as this project moves along. Questions can be directed to Dan Tucker on extension 6950.

Employee Craft Fair

SEBA is sponsoring a Spring Employee Craft Show on April 9 and 10, 1996. Tables will be available for \$15 and \$20 depending on the size. If you wish to participate or need more information, please call Connie Seymour on extension 2217.

SEBA Gift Shop

The SEBA Gift Shop has recently taken inventory and has many items on sale. Also, you can purchase Russell Stover candies, discount movie tickets, NIST t-shirts, and other souvenirs, Entertainment discount books, Maryland note cards, baby gifts, quality wallets, fashion jewelry and watches, sundry items, cards at a 20% discount, postage stamps, and much more.

Membership Drive

There is an ongoing membership drive for both the annual SEBA membership and the Fitness Center membership. You may stop in the Gift Shop to pay either membership or contact your SEBA Board of Trustees member. If you have an application for membership, you may mail that along with your check to the SEBA Gift Shop, Building 101, Room A46. There was an unfortunate typo on the application for the Fitness Center. The correct fee for a 6 month membership is \$60.00.

CAFETERIA MENU (Subject to change without notice)

<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
	Special	Special	Special	Special
	Hot Turkey Sandwich	Stuffed Peppers	Veal Parmesan	Salmon Loaf
	w/Mashed Potatoes	Ratatouille	Green Beans	Broccoli/Holland
	Oriental Vegetables	Stir Fried Cabbage	Garlic Spaghetti	Rice
HOLIDAY	Glazed Carrots	Layer Cake	Garlic Toast	Roll & Butter
	Fresh Whole Fruit	Entrees/Vegetables	Entrees/Vegetables	Entrees/Vegetables
	Entrees/Vegetables	Burrito	Taco Salad	Burrito
	Burrito	Lemon Baked Chicken	Burrito	Fish Parmesan
	Hot Turkey Sandwich	Stuffed Peppers	Veal Parmesan	Stir Fried Chicken
	& w/Mashed Potatoes	Ratatouille	Brunswick Chick Stew	Vegetables
	Corned Beef & Cabbage	Stir Fried Cabbage	Green Beans	Salmon Loaf
	Oriental Vegetables	Baked Potato	Spinach Souffle	Squash Medley
	Glazed Carrots	Rice	Garlic Spaghetti	Broccoli/Holland
	Mashed Potatoes	Soup/International	Rice	Macaroni & Cheese
	Rice	Old Fashioned Bean	Soup/International	Rice
	Soup/International	French	Red Beans & Sausage	Soup/International
	Southwestern Vegetable		Pasta	NE Clam Chowder
	Pasta			Pasta

TRAINING AND EDUCATION OPPORTUNITIES

To reserve a space in any training course an approved NIST Request For Training Memo must be submitted unless otherwise noted. Receipt of the approved Memo serves as your space registration. All classes will be filled on a first-come-first-served basis. Without an approved Memo, we are unable to reserve a space in any class. Please forward the approved Memo as soon as possible when planning your training. If you have any questions, please call x3017. Thank you!

****MANAGEMENT UPDATE SERIES****

The Management Update Series is a series of monthly briefings for all supervisors and managers focusing on administrative subjects critical to the way we operate. The Request for Training Memo is not required for sessions in the Management Update Series, unless otherwise noted.

GIVING EFFECTIVE PRESENTATIONS

Description: Would you like your presentation to be more interesting to those in your audience? Would you like to experience more pleasure and less anxiety in preparing and delivering your presentations? If so, this workshop is for you. Don Swenholt will offer tips for making dry material come alive. He can help you make your long presentations seem short and the complex seem simple. You'll be able to gain and hold the attention of an audience.

Instructor: Don Swenholt of Don Swenholt and Associates

Cost: Approximately \$275 per participant

Dates: February 21, 9-4, February 22, 9-4 and February 23 for 1 hr. 1996

Location: Lecture Room C, Administration Building

PLEASE NOTE: Request for Training Memo must be submitted ASAP. This class is limited to 12 people!

STUDENT EMPLOYMENT REGULATIONS

Instructor: Sherman Hatchett, Office of Human Resources Management

Cost: NONE

Date: March 6, 1996

Location: Lecture Room C, Administration Building

Time: 1:30 p.m. - 3:00 p.m.

PROCUREMENT AND SUPPLY

Instructor: Norm Osinski, Acquisition and Assistance Division

Cost: NONE

Date: March 18, 1996

Location: Lecture Room E, Basement 101

Time: 1:30 p.m. - 3:00 p.m.

****GENERAL TRAINING****

MAKING MEETINGS WORK

Description: Ask professionals what interferes with their productivity. High on their list will be the time they spend in meetings. **MAKING MEETING WORK** is a 4 hour workshop designed to help planners and participants make meetings more productive and shorter!

Those completing **MAKING MEETINGS WORK** will be better able to:

- o Plan and stick to an agenda for a meeting
- o Keep meetings on track when they begin to go astray
- o Determine, record, and follow up on the outcome of meetings
- o Limit interruptions, intrusions, digressions, and the many timewasters of meetings

Instructor: Don Swenholt & Associates, Inc.

Cost: Approximately \$60, per participant

Date: March 6, 1996

Location: Lecture Room C, Administration

Time: 8:30 a.m. - 12:30 p.m.

PLEASE NOTE: Request for Training Memo must be submitted by February 21.

PRE-RETIREMENT SEMINAR

Description: In this 1-day seminar you will learn the Civil Service/FERS Retirement Benefits and Social Security Benefits/Medicare. This seminar is for those employees who are thinking of retiring in the next 5 years. Joanne McGehrin is a great instructor!

Instructor: Joanne McGehrin

Cost: Approximately \$100 per participant
Date: March 21, 1996
Location: Lecture Room E, Basement 101
Time: 8:30 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted by March 7. **NOTE: Spouses are welcome!**

EFFECTIVE WRITING FOR PROFESSIONALS

Persons to attend course: Professionals who are skilled writers but need to further refine their writing style.

Description: Writing effectively means more than just writing correctly. It means developing a sensitivity to the reader's needs, an awareness of the purpose of writing a specific communication, and the ability to other ideas and word them for maximum impact and clarity. By the conclusion of the course, participants will be more constructively critical of their own writing and will begin to apply the writing principles discussed in class.

Instructor: Carol Solomon of Carol Solomon and Associates

Cost: Approximately \$150 per participant

Dates: March 5, 7, 12 and 14th

Location: Lecture Room C & F, Administration Building

Time: 9:00 a.m. - 12:00 noon

PLEASE NOTE: Request for Training Memo must be submitted by February 20.

STATISTICS FOR SCIENTISTS AND ENGINEERS: INTRODUCTION TO STATISTICAL CONCEPTS

Description: This course, the first in a unified program of short courses in applied statistics for the NIST community. It will consist of an elementary introduction to statistical concepts, with emphasis on applications to measurement. For more information on this and later courses in this series, contact Mark Vangel at 975-3208, vangel@cam.nist.gov, or see the event calendar under the Statistical Engineering Division home page at URL <http://www.cam.nist.gov/caml/sed/>.

Instructor: Mark Vangel, Information Technology Laboratory

Cost: \$50 per participant

Statistical Engineering Division

Location LR-E, Administration Building

Dates: February 26, March 4 and March 11, 1996 Time: 9:00 a.m. - 12 noon

PLEASE NOTE: Request for Training Memo must be submitted by February 21. Please no phone in registrations! For technical questions please call Mark Vangel on x3208.

****COMPUTER TRAINING****

All NIST Request for Training Memo's must be received by the Training Office at least two weeks prior to the start date of the course unless otherwise noted. At this time, the Training Office will either obligate to the instructor or cancel the class. Receipt of the approved Memo serves as your space registration. All classes will be filled on a first-come-first-reserved basis. Any questions please call Pat on x3017.

Introduction to Windows is a prerequisite for all Windows applications!

All classes will be held in A41, Basement 101. All 1-Day Classes will be \$125. All 2-Day Classes will be \$225, unless otherwise stated.

EUDORA TRAINING

Description: This short (2 1/2 hour) class will teach participants how to send and receive electronic mail using PC-Eudora for Windows, how to create and manage mailboxes, nicknames and distribution lists, how to write rules to automatically direct incoming and outgoing mail to specific mailboxes, and how to send and receive files as attachments.

Some prior experience using MS-Windows is required.

Instructor: Chuck Eater of the Information Systems Division

Cost: NONE

Dates and Times: March 8, 9:00 a.m. - 11:30 a.m.

DN-11's are not required but send an E-Mail message to Patricia.oconnor@nist.gov to register for a space.

UPGRADING FROM WP5.1 TO WP FOR WINDOWS 6.1

Description: Your productivity will increase significantly with 6.1 by taking advantage of the Powerbars, Toolbars, Templates, and Coaches. First you'll learn how to use all the icons that appear each time you load the program, then you'll learn about some of the most remarkable, easy-to use features available in any wordprocessor on the market. And of course we'll cover your basic features Bullets, tabs, alignment, formatting, and tables as they are easier than ever. You'll also learn some of WP 6.1's Quick features that will allow you to get your work done more quickly.

Instructor: Impact Services, Inc.

Date: February 21, 1996

Time: 9:00 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted ASAP.

UPGRADING FROM WP5.1 TO WP FOR WINDOWS 6.1

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Instructor: Lyndie Billey and Associates

Date: March 5, 1996

Time: 9:00 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted ASAP.

INTERMEDIATE WP 6.1 FOR WINDOWS

Description: The Intermediate WordPerfect 6.1 workshop is for those who are interested in setting up their shortcut Macros. If you work in long documents and occasionally save parts of the documents out as chapters (smaller files) then this class is for you.

Instructor: Lyndie Billey and Associates

Date: March 6, 1996

PLEASE NOTE: Request for Training Memo must be submitted ASAP.

INTRODUCTION TO WINDOWS

Description: This one-day class will teach those new to the Windows environment the benefits of using Windows.

Instructor: Lyndie Billey and Associates

Date: March 7, 1996

Time: 9:00 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted ASAP.

INTRODUCTION TO WINDOWS

Description: This class is designed for students who want to learn the basic features of Microsoft Windows 3.1 These features include starting Windows, using the Help feature, starting an application, running multiple applications, creating and adding groups, using File Manager, and changing program item properties.

Instructor: Executrain
Date: March 13, 1996
Time: 9:00 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted by February 28.

INTRODUCTION TO WINDOWS

Description: This one-day class will teach those new to the Windows environment the benefits of using Windows.

Instructor: Business Support Training, Inc.
Date: March 11, 1996
Time: 9:00 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted February 26.

INTERMEDIATE MICROSOFT WINDOWS 3.1 (NEW VENDOR EXECUTRAIN!)Great Class!

Description: This class is designed for students who want to start an application from Windows without using an icon, use shortcut keys, add programs to windows, use Character map, record and run macros, and use the Clipboard. In addition, students will learn to use File Manager to change file attributes, search for files, create Program Manager icons, and use Drag and Drop to open and print files.

Instructor: Executrain
Date: February 22, 1996
Time: 9:00 a.m. - 4:00 p.m.

PLEASE NOTE: Request for Training Memo must be submitted ASAP.

DBASE V FOR WINDOWS

Description: In this course you will learn the fundamentals of relational database design and how to implement your design in the dbase for Windows environment. Hands-on exercises include: creating and modifying tables; adding, deleting and displaying data; querying the database; and generating simple reports.

Instructor: Business Support Training, Inc.
Time: 9:00 a.m. - 4:00 p.m.
Date: February 28 & 29, 1996

PLEASE NOTE: Request for Training Memo must be submitted ASAP.

QUICK PROCUREMENT SYSTEM (QPS) TRAINING FOR THE USE OF THE BANKCARD/BLANKET PURCHASE AGREEMENT (BPA)

Description: This one-day class will provide new BankCard holders and approving officials with easy instructions on the use of the BankCard. Topics to include: cardholder and approving official duties, listing of restricted items, checklist for placing BankCard/BPA orders, QPS hands-on data entry, and instructions on reconciling your monthly statement.

Instructor: The Acquisition and Assistance Division
Cost: NONE
Date: February 26, 1996
Time: 9:00 a.m. - 4:00 p.m.

Location: A41, Administration Building

PLEASE NOTE: This training is "**MANDATORY**" for all new BankCard holders and approving officials. DN-11's are not required, however, please reserve your space by sending an E-Mail message to Patricia.oconnor@nist.gov.

POWERPOINT 4.0 FOR WINDOWS

Description: This course will teach you how to use PowerPoint version 4.0 to create well-designed visuals for presentation. Topics include: outlining ideas; creating, editing, and spell-checking slides; adding drawings; enhancing the presentation using templates and slide masters; creating graphics; adding notes

and transitions; printing the presentations; and finally running a slide show.

Instructor: Impact Services, Inc.

Time: 9:00 a.m. - 4:00 p.m.

Date: March 4, 1996

PLEASE NOTE: Request for Training Memo must be submitted by February 20.

INTERMEDIATE LOTUS FOR WINDOWS

Description: Participants will learn all intermediate and advanced functions for Lotus!

Instructor: Business Support Training, Inc.

Time: 9:00 a.m. - 4:00 p.m.

Dates: March 18 & 19, 1996

PLEASE NOTE: Request for Training Memo must be submitted by March 4.

UPGRADE FROM WP5.1-WP6.1 FOR WINDOWS

Description: Your productivity will increase significantly with 6.1 by taking advantage of the Powerbars, Toolbars, Templates and Coaches.

Instructor: Impact Services, Inc.

Time: 9:00 a.m. - 4:00 p.m.

Dates: March 20 & 21, 1996

PLEASE NOTE: Request for Training Memo must be submitted by March 6.

DBASE IV FOR DOS (THIS CLASS IS NOT OFFERED OFTEN PLEASE TAKE ADVANTAGE OF THIS OPPORTUNITY)

Instructor: Business Support Training, Inc.

Time: 9:00 a.m. - 4:00 p.m.

Dates: March 22 and 25, 1996

PLEASE NOTE: Request for Training Memo must be submitted by March 6.

NIST & NTIS VACANCIES

February 16, 1996

Vacancy Announcements will not be available until the above date.

<u>Div.</u>	<u>Title</u>	<u>Series</u>	<u>Payband</u>	<u>Salary Range</u>	<u>Known Promotion Potential</u>	<u>Vacancy Number</u>	<u>Closing Date</u>
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ZP

OPEN TO ALL QUALIFIED APPLICANTS

811	Electrical Engineer	0850	II	\$30,726-\$46,264	III	NIST/2307/JC	03/15/96
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ZS

OPEN TO ALL QUALIFIED APPLICANTS

833	Secretary (OA)	0318	III	\$20,989-\$32,613	NONE	NIST/0177/MC	03/04/96
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ZS**OPEN TO ALL QUALIFIED APPLICANTS**

353 Printing Assistant (OA) 0351 III \$20,989-\$27,297 NONE NIST/0182/BL 03/08/96

ZS**OPEN TO ALL QUALIFIED APPLICANTS**

353 Comp Assistant (Docutech) 0335 III \$20,233-\$32,613 NONE NIST/0090/BL 03/22/96

WG**OPEN TO ALL QUALIFIED APPLICANTS**

353 Custodial Worker 3566 WG-01 \$7.48/hr-\$8.72/hr NONE NIST/0152/BL 02/23/96

GS**OPEN TO ALL QUALIFIED APPLICANTS**

NTIS Com Spec (Prog/Analysis) 0334 GS-9/11 \$28,912-\$34,981 GS-12 NTIS/006-008 02/28/96

NIST maintains an Applicant Supply File for all our Shortage Occupations. Both government and non-government applicants (including NIST and DOC employees) may submit a job application to be placed in the NIST Applicant Supply File at any time. Applicants eligible for CTAP and ICTAP will receive special consideration for any Critical Shortage occupation. Applications will be retained in the NIST Applicant Supply File for 90 days and you will be considered for specific vacancies as they occur. A separate application is required for each occupation. If you wish to extend your period of consideration beyond 90 days, you must submit a new application package. Following is a list of the NIST Critical Shortage Occupations:

Paybands I thru V All Engineers, Computer Scientist, Metallurgist, and Mathematical Statistician positions. Paybands III thru V for Physical Scientist, Computer Specialist, Biologist, Social Science, Research Psychology, Economist positions, Chemist, Mathematician, Physicist. Paybands I & II for Accounting positions. Payband III for Nuclear Engineering Technician positions. Paybands I thru IV for Clerical Support(OA), Office Automation Assistant(OA) and Secretary(OA) positions. Paybands II-IV for Police Officers.

TELECOMMUNICATIONS DEVICE FOR THE DEAF: DIAL (301) 975-3007 8:30 a.m. - 5:00 p.m. or contact Maryland Relay Service at 1-800-735-2258.

NIST PERSONNEL INFORMATION HOTLINE: DIAL (301) 926-4851. This is an outside call. Boulder vacancies are listed in the Boulder Lab Weekly Bulletin.